

Title (en)
CURRENT COLLECTOR FOR ELECTRICAL STORAGE DEVICE, METHOD FOR MANUFACTURING SAME, AND COATING LIQUID USED FOR MANUFACTURING SAME

Title (de)
STROMABNEHMER FÜR ELEKTRISCHE SPEICHERVORRICHTUNG, VERFAHREN ZU SEINER HERSTELLUNG UND BEI SEINER HERSTELLUNG VERWENDETE BESCHICHTUNGSFLÜSSIGKEIT

Title (fr)
COLLECTEUR DE COURANT DESTINÉ À UN DISPOSITIF DE STOCKAGE ÉLECTRIQUE, SON PROCÉDÉ DE FABRICATION, ET LIQUIDE DE REVÊTEMENT UTILISÉ POUR SA FABRICATION

Publication
EP 3651248 A4 20200513 (EN)

Application
EP 18877289 A 20180910

Priority
JP 2018033351 W 20180910

Abstract (en)
[origin: EP3651248A1] [Object]To provide a current collector for electrical storage device which allows an electrical storage device to attain a low resistance.[Solution]A current collector for electrical storage device includes a sheet-shaped conductive substrate and a coating layer disposed on one or both sides of the conductive substrate. The coating layer includes a powdery carbon material, acid-modified polyvinylidene fluoride and polyvinylpyrrolidone. The content of the polyvinylpyrrolidone is 0.099 to 5.0 mass%. The content of the powdery carbon material in the coating layer is 15.0 to 45.0 mass%.

IPC 8 full level
H01M 4/70 (2006.01); **H01M 4/139** (2010.01); **H01M 4/62** (2006.01); **H01M 4/64** (2006.01); **H01M 4/66** (2006.01)

CPC (source: CN EP KR US)
B05D 1/28 (2013.01 - KR); **C08K 3/04** (2013.01 - KR); **C09D 7/20** (2017.12 - KR); **C09D 7/61** (2017.12 - KR US); **C09D 7/65** (2017.12 - US); **C09D 7/67** (2017.12 - KR US); **C09D 127/16** (2013.01 - KR); **C09D 127/22** (2013.01 - US); **C09D 139/06** (2013.01 - KR); **H01G 11/06** (2013.01 - US); **H01G 11/68** (2013.01 - KR US); **H01G 11/84** (2013.01 - US); **H01M 4/0404** (2013.01 - CN US); **H01M 4/139** (2013.01 - EP); **H01M 4/62** (2013.01 - EP); **H01M 4/623** (2013.01 - EP); **H01M 4/625** (2013.01 - EP); **H01M 4/66** (2013.01 - EP); **H01M 4/663** (2013.01 - US); **H01M 4/667** (2013.01 - CN KR US); **H01M 4/668** (2013.01 - CN KR US); **H01M 4/70** (2013.01 - EP); **H01M 10/0525** (2013.01 - CN US); **H01G 11/06** (2013.01 - KR); **H01M 10/052** (2013.01 - KR); **H01M 2004/021** (2013.01 - US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)

- [YD] JP 2015088465 A 20150507 - HITACHI MAXELL
- [Y] US 2013029220 A1 20130131 - HAN DA-WOON [KR], et al
- [A] US 2015280238 A1 20151001 - HELLRING STUART D [US], et al
- [A] EP 3358662 A1 20180808 - KUREHA CORP [JP]
- See references of WO 2020053916A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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EP 3651248 A1 20200513; **EP 3651248 A4 20200513**; CN 109964348 A 20190702; CN 114447341 A 20220506; JP 6529700 B1 20190612; JP WO2020053916 A1 20201022; KR 102008807 B1 20190812; TW 202011631 A 20200316; TW I686002 B 20200221; US 11018344 B2 20210525; US 2020403246 A1 20201224; WO 2020053916 A1 20200319

DOCDB simple family (application)
EP 18877289 A 20180910; CN 201880003610 A 20180910; CN 202210111511 A 20180910; JP 2018033351 W 20180910; JP 2019501737 A 20180910; KR 20197004895 A 20180910; TW 107131974 A 20180912; US 201816466102 A 20180910